



ANNAMACHARYA UNIVERSITY

EXCELLENCE IN EDUCATION; SERVICE TO SOCIETY
(ESTD, UNDER AP PRIVATE UNIVERSITIES (ESTABLISHMENT AND REGULATION) ACT, 2016)
Rajampet, Annamayya District, A.P – 516126, INDIA

Faculty Profile

Basic Information:

NAME	:	Dr. B. Devaraj Naik
DESIGNATION	:	Assistant Professor
DEPARTMENT	:	Mechanical Engineering
DATE OF BIRTH	:	13-06-1993
DATE OF JOINING	:	08-06-2022
EMAIL ID	:	aits.med.dev@gmail.com
EMPLOYEE ID	:	AIMS031042



Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph.D	National Institute of Technology Tiruchirappalli (NIT-Tiruchy)	2022
M.Tech.	Maulana Azad National Institute of Technology Bhopal (NIT- Bhopal)	2016
B.Tech.	Jawaharlal Nehru Technological University, Anantapuramu (JNTUA)	2014

Research Details:

1. Areas of Specialization	:	Thermal Engineering and Industrial Maintenance (Manufacturing Process)
2. No. of Publications	:	18
3. Awards Received	:	-
4. Research Guidance		
	No. of PhD Guided:	01
	No. of M.Tech. Guided:	00
	No. of B.Tech. Guided:	03
5. Details of Professional Membership:		IEI
6. Subjects Taught	:	1. Engineering Drawing 2. Manufacturing Process 3. Non-conventional Sources of Energy



ANNAMACHARYA UNIVERSITY

EXCELLENCE IN EDUCATION; SERVICE TO SOCIETY
(ESTD, UNDER AP PRIVATE UNIVERSITIES (ESTABLISHMENT AND REGULATION) ACT, 2016)
Rajampet, Annamayya District, A.P – 516126, INDIA

Publication Details:

Title	Published Year
1. Devaraj Naik B , Ramanjaneyulu C, Santhosh Reddy V, Sundara Ramam R, Suresh Babu G, Vinoth T, Ravi Kumar K, Saikiran A. Synthesis and Characteristic analysis of an norganic composite phase change materials for medium-temperature thermal storage. Powder technology. (SCI).	2024
2. B. Devaraj Naik . D., Jaganathan, S., Jayaraman, S., Muthu, G., Dhairiyasamy, R., & Rajendran, S. Enhanced heat transfer performance of silver Nanofluids as coolants in a helical Shell and tube heat exchanger: an experimental study. Heat and Mass Transfer, 60(3), 463-477.(SCI)	2024
3. Ramam, R. S., Pujari, S., Chigilipalli, B. K., B Devaraj Naik . D., Kottala, R. K., & Kantumuchu, V. C. (2024). Fabrication and optimization of acoustic properties of natural fiber reinforced composites. International Journal on Interactive Design and Manufacturing (IJIDeM), 18(6), 3681-3689.(Scopus)	2024
4. Jaganathan, S., B.Devaraj Naik , B., Ravikumar, V., Venkateshkumar, R., Dhairiyasamy, R., Rajendran, S., & Alphonse, P. Experimental investigation of the performance of silver nanofluid as a coolant in a helical shell and tube heat exchanger. Journal of Thermal Analysis and Calorimetry, 149(1), 439-451. (SCI)	2024
5. Ramanjaneyulu C, Reddy KA, Venkatesh V, Sureshbabu G, B Devaraj Naik .Waste Heat Recovery from Condenser by using Phase Change Material. International Journal of Vehicle Structures & Systems.16 (1):36-8.	2024
6. B Devaraj Naik , Venkatesh V, Thangarasu V, Ramanjaneyulu C, Babu GS, Reddy KA. Review on Characterization and Analytical Measurements for Various Edible and Non-Edible Raw Oil and Biodiesel. International Journal of Vehicle Structures & Systems.;15(6):744-7.	2023
7. Rinivas Jayaraman, B. Devaraj Naik , V. Ravikumar, R. Venkateshkumar, G. Muthu. Environmental Effect of Exhaust gas Recirculation Diesel Engine using Karanja oil Methyl ester with low Heat Rejection in Direct Injection. Environmental protection and ecology. (Scopus)	2023
8. B. Devarajnaik and Prabhakarkamma. Tensile test on Friction stir weld similar and dissimilar Az31B/Az91B Alloys, Int. J. Vehicle Structures & Systems, 15(2), Pages to be allocated. (Scopus)	2023
9. B Devaraj Naik , M Udayakumar and S Vedharaj. Experimental and empirical analysis of a diesel engine fuelled with ternary blends of diesel, waste cooking sunflower oil biodiesel and diethyl ether. Fuel. (SCI)	2022
10. B Devaraj Naik and M Udayakumar. Kinetics and thermodynamic analysis of transesterification of waste cooking sunflower oil using bentonite-supported sodium methoxide catalyst. Biomass Conversion and Biorefinery,. (SCIE)	2021



ANNAMACHARYA UNIVERSITY

EXCELLENCE IN EDUCATION; SERVICE TO SOCIETY

(ESTD, UNDER AP PRIVATE UNIVERSITIES (ESTABLISHMENT AND REGULATION) ACT, 2016)

Rajampet, Annamayya District, A.P – 516126, INDIA

11. B Devaraj Naik and M Udayakumar. Comparative assessment of response surface methodology and artificial neural networks in forecasting biodiesel yield from waste cooking sunflower oil. Materials Today: Proceedings. (Scopus)	2021
12. B Devaraj Naik and M Udayakumar. Optimization studies on esterification of waste cooking oil using sulfated montmorillonite clay acidic catalyst. Materials Today: Proceedings. (Scopus)	2021
13. B. Devaraj Naik and M Udyakumar. Experimental studies on sodium methoxide supported bentonite catalyst for biodiesel preparation from waste sunflower oil. Environmental Progress & Sustainable Energy, Doi.org/10.1002/ep.13390. (SCI)	2020
14. B Devaraj Naik and M Udayakumar. Optimization and characterization studies on the production of bio-diesel from WSO using carbon catalyst derived from coconut meal residue. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. (SCI)	2019
15. B.Devaraj Naik and Pradeep Kumar Soni. Research Review on Reliability Centered Maintenance. International journal of innovative research in Science, engineering and technology, 5(6).	2016
16. B.Devaraj Naik and Praddep kumar soni. Application of Reliability Centered Maintenance on horizontal boring machine: - A case study. International journal of advanced engineering research and science 3(7),236776	2016
17. B. Devaraj Naik and Subba Reddy M. Research review on earth pipe air conditioning system. International research journal of engineering and technology, 3(12), 1237-1240.	2016
18. B. Devaraj Naik , Lakhan Patidar and Pradeep Kumar Soni. Relationship of 5S and Manufacturing Performance with Mediator of TPM and TQM. International research journal of engineering and technology 2(7), 1217-1222p.	2015

Patent Details:

Title of Patent	Submitted/Published/Awarded
1. Conductive coating for low temperature solid oxide fuel cells	Published